|   | Application No.  | Applicant(s)  |
|---|--|---|
| Notice of Allowability  | 10/619,277   | PARK ET AL.   |
|   | Examiner   | Art Unit  |
|   | Steven E. Holton   | 2673  |
| The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in<br>or other appropriate comm<br>IGHTS. This application is: | n this application. If not included unication will be mailed in due course. <b>THIS</b> |
| 1. 🖾 This communication is responsive to the amendment filed  | <u>on 1/3/2006</u> .   |   |
| 2. The allowed claim(s) is/are <u>1-7</u> .   |  |   |
| <ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>  |  | or (f).   |
| 2. Certified copies of the priority documents have been received in Application No  |  |   |
| 3.   Copies of the certified copies of the priority documents have been received in this national stage application from the  |  |   |
| International Bureau (PCT Rule 17.2(a)).  |  |   |
| * Certified copies not received:  |  |   |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.                              |  |   |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  |  |   |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.   |  |   |
| (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  |  |   |
| 1)  hereto or 2)  to Paper No./Mail Date  |  |   |
| (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of<br>Paper No./Mail Date   |  |   |
| Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).   |  |   |
| 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.   |  |   |
|   |  |   |
| Attachment(s)   |  |   |
| 1. Notice of References Cited (PTO-892)   |  | nformal Patent Application (PTO-152)  |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948)  | 6. ∐ Interview S<br>Paper No.  | tummary (PTO-413),<br>/Mail Date  |
| 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0  | 08), 7. ☐ Examiner's   | Amendment/Comment   |
| Paper No./Mail Date 1/9/06 4.  Examiner's Comment Regarding Requirement for Deposit   | 8. 🛛 Examiner's  | Statement of Reasons for Allowance  |
| of Biological Material  | 9.   |   |
|   |  |   |
|   |  |   |

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## **Reasons For Allowance**

This Office Action is made in response to applicant's amendment filed on
 1/3/2006. Claims 1-7 are currently pending in the application. An action follows below:

## Response to Arguments

2. Applicant's arguments, see page 14, filed 1/3/06, with respect to claims 1-7 have been fully considered and are persuasive in view of the amendments to the claims. The rejections under 35 USC 112, 1<sup>st</sup> and 2<sup>nd</sup> paragraph of claims 1-7 have been withdrawn.

## Allowable Subject Matter

- 3. Claims 1-7 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The present invention is directed to a liquid crystal display and driving method to calculate pre-charge voltages for reducing power consumption for driving the display device. Each independent claim identifies the uniquely distinct features converting a present input data and previous data in reference to a look-up table, computing a mean value of the converted present and previous data, and replacing the calculated mean value with a further value approximating the gray scale data and using the value as precharge data for driving the display device. The closest prior art, Lee (USPgPub: 2001/0038372), Tanaka et al. (USPN: 6700559), Lee (USPgPub: 2003/0098839), Toshiyuki (Korean Patent Abstract: 1020030004049), and Verhulst (USPN: 5905484) disclose methods of producing driving voltages for liquid crystal displays involving averaging current values, using look-up tables to convert values of previous and current

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values and other comparisons of voltage levels, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven E. Holton whose telephone number is (571) 272-7903. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on (571) 272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER
Amy Ahmal Awars

Steven E. Holton March 16, 2006 Division 2629 (formerly AU 2673)